Effective Screening for Pain Study NCT01816763 July 2018

Analysis plan

- 1. Describe study eligibility and enrollment.
 - Report numbers of patients approached, eligible/ineligible (reasons), enrolled/not enrolled (reasons), and analyzed/not analyzed in standard CONSORT figure (Figure 1)
 - b. Describe characteristics of study sample (numbers, percents, means) by randomized arm (Table 1)
- 2. Compare study measures
 - a. Describe results of Nurse NRS, NRS-one week assessed via table, PEG, (Table 2):
 - i. Mean (SD) score
 - ii. Percent of scores in no pain (0), mild (1-3), moderate (4-6), and severe (7+) categories.
 - b. Describe agreement on categories of pain severity: weighted kappa statistic for agreement of each screening measure compared with GCPS characteristic pain severity. (Table 3)

Measure scoring

- 1) Calculate a score for each measure (all 0-10)
 - a) <u>Graded Chronic Pain Scale (GCPS) Characteristic Pain Intensity</u>: Sum of Pain Right Now (Q2) + Worst Pain (Q3) + Usual Pain Intensity (Q4)
 - i) Calculate score as above and divide by 3.
 - b) PEG: Sum 3 items and divide by 3.
 - c) NRS one-week
 - d) NRS nurse
- 2) For all measures, scores are rounded to the nearest whole number and categorized as follows:
 - a) No pain = 0
 - b) Mild pain = 1-3
 - c) Moderate pain = 4-6
 - d) Severe pain ≥ 7

Table 1: Characteristics of randomized participants

	Arm 1 (nurse NRS) n=	Arm 2 (tablet NRS average) n=	Arm 3 (PEG) n=	
Age, mean (SD) years				
Sex, n (%) male				
Race/ethnicity, n (%)				
White				
Black/African-American				
Asian				
Native American/Alaskan				
Native				
Native Hawaiian/Pacific				
Islander				
Hispanic/Latino				

Medical comorbidity score,		
Seattle mean (SD)		
Physical activity item		
Friysical activity item		
Disability days it an		
Disability days item		
Depression = (0/) (206.0)		
Depression, n(%) (296.2x,		
296.3x, 300.4, 311)		
Anxiety, n(%) (300.0x,		
300.2x)		
PTSD, n(%) (309.81)		
Alcohol use disorder, n(%)		
(303.9x, 305.0x)		
Drug use disorder, n(%)		
(304.xx, 305.2x-305.7x,		
305.9x)		
Back pain (codes TBD)		
, , ,		
Joint pain (codes TBD)		
, ,		
Headache (codes TBD)		
, , ,		
Neuropathic pain (codes		
TBD)		
-		

Table 2: Pain screening outcomes by randomized arm

	Arm 1 (usual NRS) n=	Arm 2 (tablet NRS average) n=	Arm 3 (PEG) n=	p-value
Screening measure score, mean (SD)				
No pain (0), n (%)				
Mild pain (1-3), n (%)				
Moderate pain (4-6), n (%)				
Severe pain (7+), n (%)				

Table 3: Agreement of screening measures with reference standard (GCPS characteristic pain intensity) on category of pain severity (none, mild, moderate, or severe)

	None	Mild	Mod	Severe
Usual NRS				
Tablet NRS average				

PEG		